

Grevillea,

A QUARTERLY RECORD OF CRYPTOGAMIC BOTANY
AND ITS LITERATURE.

NOTICES OF NORTH AMERICAN FUNGI.

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(Continued from Vol. III., Page 16.)

814. **Nectria aglæothele.** *B. & C.*—Pallida; ostiolo papillæformi demum collabente; ascis linearibus; sporidiis ellipticis uniseptatis.

On alder. Apparently growing on the remains of some *Coccus*. New England, Sprague. No. 5378.

Pale; ostiolum distinct, papillæform darker, then deeply sunk by collapsion; asci linear; sporidia elliptic, uniseriate, slightly attenuated at either end, .00057 inch long. *Nectria crustulina*, *B. & Rav.* Santee Canal. No. 1865, with cæspitose neat tan-coloured perithecia is a stylosporous form, with obovate uniseptate spores, .0006-0004 inch long.

815. **Nectria Russellii.** *B. & C.*—Cæspitosa, rubra, ostiolo papillæformi dein collabente; sporidiis cymbæformibus uniseptatis.

On elm. New England, Russell. No. 5147.

Cæspitose, red, inclining to brown, ostiolum papillæform, at length sunk from collapsion, sporidia cymbiform, uniseptate, .0006-0008 inch long. No. 2154, on *Morus*, *Car. Inf.*, scarcely differs.

816. **Nectria viticola.** *B. & C.*—Parva, nitide coccinea, mollis lateraliter collabens e strato albo tenui oriunda; sporidiis uniseri- alibus ellipticis uniseptatis.

On branches of vine. Alabama, Peters. No. 5225.

Scattered, bright crimson, soft, collapsing laterally, seated on a thin white mycelium; sporidia uniseriate, elliptic, uniseptate.

817. **Nectria offuscata.** *B. & C.*—Cæspitosa brunneo-rubra, subtiliter granulata ostiolo collabente; ascis clavatis; sporidiis biserialibus oblongis angustis hyalinis.

On *Hibiscus syriacus*. *Car. Inf.* No. 2865.

Cæspitose, dingy dark brown-red; minutely granulated; ostiolum depressed; asci clavate; sporidia biseriate, oblong, about $\frac{1}{4}$ th as broad as long; externally resembling *N. Russellii*.

* **Nectria cinnabarina.** *Fr.*—*Car. Sup.* No. 138. *Car. Inf.* No. 1399. On *Morus*. Mountains of New York. On *Acer*. No. 4430. On gooseberry. No. 4433.

818. **Nectria diploa.** *B. & C.*—"Journ. Linn. Soc.," x., p. 378. *Var. diminuta.*

Minuta parasitica coccinea; ascis lanceolatis; sporidiis breviter fusiformibus, 2-4 nucleatis.

On some *Sphæria*. On alder. *Car. Inf.* No. 4029.

Very minute, parasitic, scarlet; asci lanceolate but obtuse; sporidia sometimes larger, binucleate, at length uniseptate, in one row or smaller quadrinucleate, biseriata, .001-.00114 inch long.

819. **Nectria Curtisii.** *B.*—Minuta, erumpens sparsa; ascis lanceolatis, sporidiis oblongis curvis, quadrinucleatis.

On *Zea*. *Car. Inf.* No. 3795.

Minute, erumpent, scattered; asci lanceolate, sporidia oblong, curved, with four nuclei, .0005 inch long, about $\frac{1}{6}$ th as broad as long.

* **Nectria polythalama.** *B.*—*Fl. New Zeal.*, II., p. 203. *Tab. cvi.*, fig. 15.

On *Liquidambar*. Alabama, Peters. No. 6082. On *Fraxinus*. *Car. Inf.* Ravenel. No. 1549.

Sporidia curved, pluriseptate, .001-.0008 inch long.

820. **Nectria auriger.** *B. & R.*—*Cæspitosa aureo-pulverulenta ostiolo collapso fusco, sporidiis breviter cymbæformibus utrinque attenuatis pluriseptatis.*

On *Fraxinus*. *Car. Inf.* Ravenel. No. 1830.

Perithecia clothed with yellow powder, ostiolum dark, depressed; sporidia cymbæform, slightly attenuated at either end, with about seven septa, .001 inch long.

Var. flavitecta, *B. & C.* Sporidiis majoribus 4-septatis.

On *Kerria Japonica*. *Car. Inf.* No. 4025.

Sporidia quadriseptate, sometimes with a gelatinous coat, .0015 inch long. Possibly a distinct species, but the specimen is not in good condition.

* **Sphærostilbe pseudotrichia.** *Schwein.* (*Sub Sphæria.*) *Nectria. B. & C.*—"Journ. Ac. Nat. Sc. Phil.," ii., 1853, p. 289, tab. 25, fig. 9, "Journ. Linn. Soc.," xiv., p. 114. Canada, Poe. No. 6140.

* **Sphærostilbe cinnabarina.** *Tul.*—*Carp.* iii., p. 103. Louisiana, Dr. Hale. No. 3674. On hickory. *Car. Inf.* Ravenel. 1339. There are two specimens from Ravenel. On *Morus*. No. 1432. On *Rhus radicans*. No. 1639, and *Car. Inf.* No. 3049, in which the Stilbum (*S. lateritium*, *B.*) is more transparent. This may possibly indicate another species.

* **Sphærostilbe gracilipes.** *Tul.*—*Carp.* iii., p. 102. *Car. Inf.* On *Hibiscus syriacus*. No. 2637. On *Carya*. No. 2410. On *Melia*. Ravenel. No. 1439. On *Platanus*. No. 1820. Alabama, Peters. On *Carya*. No. 5247.

Sphærostilbe coccophila. Tul. l. c. p. 105.—On *Alnus serrulata*. Pennsylvania, Michener. No. 4316.

It is not quite certain that this is Tulasne's species. The conidia are those of an *Atractium*, .002 long.

* **Sphærostilbe flammea.** Tul. l. c. p. 104.—On *Acer rubrum*. Car. Inf. Ravenel. No. 1843.

There is a very distinct species on *Magnolia glauca*. Car. Inf. No. 5005 (*Atractium pallidum*) B. & C., with short fusiform spores, .0005 inch long, with the endochrome retracted to either end; also Ravenel, No. 976 and 1433. On *Parmelia* and *Frullania Virginnica*, which may possibly be the conidiiferous form of *Nectria muscivora*.

* **Cucurbitaria elongata.** Grer.—On *Robinia*. Mountains of Virginia. No. 3307, 3323. New York, Sartwell. No. 3624. On *Gleditschia*. No. 5974. Car. Sup. No. 841.

* **Cucurbitaria Gleditschiæ.** Schwein.—Car. Sup. No. 841, 942. Sporidia ovate, uniseptate.

* **Cucurbitaria Berberidis.** Tul.—New England, Russell. No. 5961, 5980.

* **Cucurbitaria tumorum.** Schwein.—Canada, Poe. No. 6141.

821. **Cucurbitaria callista.** B. & C.—Effusa, peritheciis in crustam fuscam insidentibus primum globosis dein collapsis; sporidiis minutis allantoideis.

On Hornbeam. No. 342.

Forming a continuous effused patch; perithecia seated on a brown crust, at first globose, then collapsed; sporidia minute, sausage-shaped.

822. **Cucurbitaria brevibarbata.** B. & C.—Cæspitosa globosa nec collapsa minutissime tomentosa; ascis clavatis faretis; sporidiis allantoideis.

823. **Xylaria Titan.** B. & C.—Gigantea allantoidea dura extus albida; ostiolis nigris prominentibus.

Texas, Lindheimer, No. 2676.

Five inches long, 2 inches wide, sausage-shaped, convex on one side, hollow on the other; hard, solid, dirty-white, stained with the sporidia and dotted with the prominent ostiola.

824. **Xylaria cudonia.** B. & C.—Sublaccata; stipite curto sursum dilatato; capitulo hemispherico e peritheciis papillato; ostiolis minimis.

On a dead tree. Car. Inf. Santee Canal, No. 3220.

Slightly lacate, shining; stem $\frac{5}{12}$ inch long, nearly 2 lines thick above; head semiglobose, $\frac{5}{12}$ inch across, slightly papillose from the projection of the perithecia; ostiola very small.

825. **Xylaria clavulus.** B. & C.—Parva seriata; stipite brevi crassiusculo penetrante; capitulo convexo.

On the dead stem of some grass. Texas, C. Wright, No. 3150.

Gregarious, seriate. A miniature of the last. Stem with the head about 1 line high, not laccate, rather thick for the size of the plant, penetrating the convex papillate head. A very curious little species.

* **Xylaria digitata.** *Fr.*—Car. Sup. No. 417. Texas, Lindheimer, No. 3627.

* **Xylaria polymorpha.** *Fr.*—Car. Sup. No. 450, 739. Pennsylvania, Michener. No. 3782.

* **Xylaria Cornu-Damæ.** *Schwein.*—On dead wood. Car. Inf. Ravenel.

* **Xylaria corniformis.** *Fr.*—Car. Inf. No. 1124. Car. Sup. No. 733.

On *Rhus copallina*. Car. Inf. Ravenel. No. 1803. On *Populus dilatata*. No. 914. On *Acer rubrum*. Ravenel. No. 1558, and *Myrica cerifera*.

Cæspitose globose, not collapsed, clothed with very minute black pubescence; asci clavate, stuffed with multitudes of minute sausage-shaped sporidia.

* **Xylaria flabelliformis.**—*Schwein.*—Car. Inf. No. 1213, 2609.

* **Xylaria pedunculata.** *Fr.*—St. Louis, Missouri, Dr. G. Engelmaan. No. 6429.

* **Xylaria hypoxylon.** *Fr.*—Car. Inf. No. 57. 116. 737. 600. 1824. Ravenel, No. 1277. Pennsylvania, Michener. No. 3924.

* **Xylaria persicaria.** *Schwein.*—On peach stones. Car. Inf. No. 3218.

* **Xylaria carpophila.** *Fr.*—On nuts of *Liquidambar*. Car. Inf. No. 1175. Ravenel. No. 1279. 1277.

* **Xylaria filiformis.** *Fr.*—On dead leaves. Car. Inf. Ravenel

* **Xylaria rhopaloides.** *Mont.*—Var. **acicularis**, *B.* More slender and delicate. Car. Sup. Ravenel. No. 1301. Car. Inf. No. 68. 248. 433. Texas, C. Wright. No. 3904.

826. **Xylaria tentaculata.** *B. & Br.*—Stipite elongato glabro fusco; capitulo brevi cylindrico processibus longis tentaculiformibus coronato.

In shaded swamps among mosses and rotting wood. Car. Inf. Ravenel. No. 1300. On the fruit of some *Leguminosa*. Cordova. Sallé. No. 92.

Stem 1 inch high, not a line thick; head cylindrical, 1-2 lines long, ostiola prominent, tending upwards, crowned by several tentacular processes, about $\frac{1}{2}$ an inch long. Allied to *Xylaria comosa*, *Mont.*

* **Poronia Œdipus.** *Mont.*—On dung. Alabama, Peters. No. 4019. Texas, C. Wright. No. 3778.

* **Hypoxylon concentricum.** *Grev.*—Car. Sup. No. 70.

* **Hypoxyylon Petersii.** *B. & C.*—Journ. Linn. Soc. x., p. 384.

On rotting oak. Alabama, Peters. No. 4903. Cuba, C. Wright. Sporidia 0003 long.

827. **Hypoxyylon malleolus.** *B. & Rav.*—Globosum confluens, ostiolis annulo depresso circumdati, stromate nigerrimo.

On oak trees. Car. Inf. Ravenel. No. 1646.

Globose, $\frac{3}{4}$ inch wide, but often laterally confluent, ostiola papilliform, sunk in an annular depression as in *H. marginatum*; stroma jet black.

828. **Hypoxyylon glomiforme.** *B. & C.*—Hemisphericum ferrugineo-pulveraceum, demum denudatum nitidum læve; peritheciis conditis; stromate atro-fusco.

On bark of *Quercus nigra*. Connecticut, C. Wright. No. 5632. 6368.

Gregarious, hemispherical, nearly $\frac{1}{4}$ inch wide, at first clothed with ferruginous powder, then black and shining, even, perithecia hidden without any external trace of ostiola; stroma dark brown.

829. **Hypoxyylon Murraini.** *B. & C.*—Subglobosum extus intusque nigrum, ostiolis dense papillosum.

On dead bark. Boston, Murray.

Gregarious, subglobose, a line or more broad, black without and within, densely papillose with the minute ostiola. The specimens are unfortunately without fruit. It resembles externally *H. bomba*, Mont., except the densely papillose surface.

* **Hypoxyylon fragiforme.** *Grev.*—Car. Inf. No. 1420. Cotoosa Springs, Ravenel. No. 1740. Rhode Island. Olney. No. 1855. Amherstburgh, Dr. Maclagan. No. 372. Sartwell. No. 2736.

* **Hypoxyylon argillaceum.** (*P.*)—Canada, Dr. Maclagan. No. 291.

* **Hypoxyylon fuscum.** (*P.*)—On *Betula rubra*, *Laurus benzoin*, *Ilex opaca*, *Cerasus avium*. Car. Sup. No. 16, 106, 197, 312. Pennsylvania, Michener. No. 4121. Car. Inf. Ravenel. No. 1751.

* **Hypoxyylon cohærens.** (*P.*)—On oak, beech, *Nyssa*, *Acer Pennsylvanicum*. Car. Sup. No. 69, 842. Car. Inf. No. 2206. Mountains of New York. No. 4437, 4503. Cotoosa Springs. Ravenel, No. 1741. Sporidia 0003 inch long.

* **Hypoxyylon marginatum.** (*Schwein.*)—On oak. Car. Sup. No. 58, 104, 129, 240, 376. Car. Inf. No. 1482, 1546, 1571. Ravenel, No. 531, 1753. Cotoosa Springs. No. 1739. var. EFFUSUM. Alabama, Beaumont. No. 4855. On *Myrica cerifera*. Car. Inf. Ravenel. No. 1578, 1823. Dr. Maclagan. No. 367. Amherstburgh.

* **Hypoxyylon multiforme.** *Fr.*—On oak. Car. Inf. No. 1538, 2370, 2525.

830. **Hypoxyylon crocopeplum.** *B. & C.*—Irregulare depressum pulvere crocino tectum; peritheciis prominulis, ostiolo minuto.

On decayed bark. Car. Inf. No. 1906. Nearly $\frac{1}{2}$ inch broad, irregular, depressed, clothed with a dense coat of red ferruginous (peroxyd) powder; perithecia rather prominent, with a minute ostiolum, sporidia dark, shortly cymbæforme.

* **Hypoxylon rubricosum.** *Mont.*—On ash. Car. Inf. No. 6007. Ravenel. No. 1835. On *Melia azederach.* No. 1795. Sporidia .0004 inch long.

831. **Hypoxylon gemmatum.** *B. & Rav.*—Parvum, pulvinatum, rubiginosum, ostiolis prominulis nigris centro perforatis gemmatis. On *Liquidambar.* Car. Inf. Ravenel. No. 1385.

Small, scarcely a line broad, pulvinate but flat, rubiginous, sometimes transverse, studded with the black prominent ostiola, which are perforated in the centre.

* **Hypoxylon perforatum.** (*Schwein.*)—On *Arundinaria macrosperma.* Car. Inf. No. 1010. Ravenel. No. 97. On *Cornus florida.* No. 1767. 1812.

832. **Hypoxylon jecorinum.** *B. & Rav.*—Effusum pulvere fulvo primum tectum demum jecorinum; ostiolis prominulis punctatum. On logs of *Acer rubrum.* Car. Inf. Ravenel. No. 1560.

Effused, an inch or more long and broad; at first tawny, dotted with dark ostiola, then liver-coloured. No. 1828. On *Platanus,* differs only in having the perithecia more prominent.

833. **Hypoxylon florideum.** *B. & C.*—Effusum undulatum vinosum pulverulentum, peritheciis abditis; sporidiis cymbæformibus uninucleatis.

Car. Inf. No. 1911. On *Acer rubrum.* Ravenel. No. 1579.

Effused for many inches, undulated, clothed with a vinous powder, asci linear, sporidia cymbæform, .0036 long, uninucleate.

* **Hypoxylon decorticatum.** (*Schwein.*)—Car. Inf. No. 2845.

834. **Hypoxylon myriangioides.** *B. & Rav.*—Orbiculare pulvinatum, ferruginum rugosum, peritheciis prominulis collabentibus, ascis lineari-lanceolatis; sporidiis fusiformibus curvatis triseptatis.

On bark of Hornbeam. Car. Inf. Ravenel. No. 1363.

Orbicular, pulvinate, flat, rugose, ferruginous; perithecia prominent, collapsing; asci linear-lanceolate, sporidia biseriata, fusiform, curved, triseptate.

835. **Hypoxylon notatum.** *B. & C.*—Peritheciis paucis majoribus in pulvinulos congestis, rubiginosis, ostiolo demum truncato perforato.

On *Celtis.* Car. Inf. No. 1910. On oak. Car. Inf. No. 2205. On *Viburnum dentatum.* Pennsylvania, Michener, No. 4206.

Perithecia few, rather large, crowded into a little pulvinate mass clothed with rubiginous powder, ostiola at length prominent, truncate, with a central perforation. The sporidia, which are shortly cymbæform, vary a little in size.

836. **Hypoxylon glomus.** *B. & C.*—Erumpens pulvinatum sub-angulare nigrum; peritheciis paucis; ostiolis hic illic erumpentibus perforatis.

New England, Murray. No. 5698. Sprague. No. 6273.

Erumpent, pulvinate, somewhat angular, black, with a little red about the apex; perithecia large, about five in each pustule. This is clearly a very distinct species, but the specimens are unfortunately old and without fruit.

837. **Hypoxylon leucocreas.** *B. & Rav.*—Parvum pulvinatum e peritheciis prominulis papillatum nitidum, intus niveum; sporidiis parvis ellipticis.

On limbs of oak. Car. Inf. Ravenel. No. 1706.

Small, about $\frac{1}{2}$ a line across, black, papillate from the projection of the perithecia; stroma snow-white; asci linear; sporidia in a single row, minute, elliptic, brown.

838. **Hypoxylon bicolor.** *B. & C.*—Irregulare undulatum placentaeforme granulatum, intus niveum.

Vermont. No. 5909.

Irregular, strongly undulated, an inch or more across, finely granulated, white within. This again is without fruit, but is a very distinct species.

* **Hypoxylon enteromelum.** *Schwein.*—On beech. Pennsylvania, Michener. No. 4354. Nova Scotia, Rev. J. D. Russell. No. 5901.

839. **Hypoxylon xanthocreas.** *B. & C.*—Pulvinatum nigrum demum confluens e peritheciis prominulis papillosum; stromate flavo; ascis linearibus; sporidiis uniseriatis ellipticis.

New England, Sprague. No. 5374.

At first distinct, pulvinate, then by confluence forming a mass half an inch broad, black, papillate from the projection of the minute perithecia; asci linear; sporidia uniseriate, elliptic, 0003 long. Differs from Montagne's *H. endoxanthum*.

840. **Hypoxylon epirhodium.** *B. & Rav.*—Effusum tenue parvum nigrum ex ostiolis prominulis papillosum; ascis linearibus; sporidiis elliptic uniseriatis.

Car. Inf. No. 3253. On branches of rose. Car. Inf. Ravenel.

Effused, thin, forming small black patches, about two lines across, papillose from the slightly prominent ostiola; asci linear; sporidia uniseriate, elliptic.

* **Hypoxylon turbinulatum.** *Schwein.*—On beech. Pennsylvania, Michener. No. 4216.

* **Hypoxylon callostroma.** *Schwein.*—On *Benzoin odoriferum*. Pennsylvania, Michener. No. 3959. No. 4346, on *Prinus verticellatus*. Alabama, Beaumont. No. 4619.

Sporidia oblong, .0004 long.

841. **Hypoxylon Morsei.** *B. & C.*—Erumpens; peritheciis magnis

congestis rubiginosis; ostiolo papillæformi; ascis linearibus; sporidiis oblongis.

On alder. New England, Russell. No. 5936. Maine, Morse. No. 6277.

Erumpent; perithecia large, crowded, covered with rubiginous meal; ostiola papillæform; asci linear; sporidia uniseriate, oblong, with one or two nuclei, .001 or more long, about $\frac{1}{3}$ as much wide.

842. **Hypoxylon Blakeii.** *B. & C.*—Erumpens; peritheciis minoribus congestis ferrugineis; ostiolo papillæformi; ascis linearibus; sporidiis oblongis.

On willow. Maine. No. 6303.

Erumpent; perithecia ferruginous, much smaller than in the last, crowded; ostiola prominent; asci linear; sporidia uniseriate, oblong, with one or two nuclei, .0008 long. In many respects resembling the last, but with smaller perithecia and sporidia.

* **Hypoxylon sassafras.** *Schwein.*—*Car. Inf.* No. 1889. Ravenel. Sporidia oblong, .0008 long.

843. **Hypoxylon epiphæum.** *B. & C.*—Peritheciis paucis conatis e maculâ rubiginosa oriundis; ostiolo papillæform; sporidiis breviter cymbæformibus.

On *Magnolia glauca.* *Car. Inf.* No. 2437.

Perithecia few, crowded in the centre of a rubiginous spot; ostiolum papillæform; asci linear; sporidia uniseriate, brown, shortly cymbæform.

* **Hypoxylon rubiginosum.** *Fr.*—*Car. Sup.* No. 878. Texas, C. Wright. No. 3893.

* **Hypoxylon subiculosum.** *Schwein.*—*Car. Sup.* No. 86, 176, 278, 309, 319, 321, 357, 384, 395, 423. *Car. Inf.* No. 4920. Ravenel. No. 1707.

Sporidia shortly cymbiform, binucleate, .0005 long.

* **Hypoxylon gregale.** *Schwein.*—*Car. Inf.* Ravenel. No. 1329.

Perithecia ovate, rather acute, pulverulent; ostiolum papillæform; sporidia oblong, narrow, uniseptate, .0005 long.

* **Hypoxylon mammæforme.** *Fr.*—*Car. Inf.* On *Cyrilla.* No. 952.

844. **Hypoxylon nucitena.** *B. & C.*—Peritheciis minutis nigris confluentibus tingentibus; sporidiis cymbæformibus biseptatis, medio fuscis.

On nuts of *Carya.* Pennsylvania, Michener. No. 4151.

Perithecia minute, crowded, forming an even stratum, pulverulent; ostiolum papillæform; sporidia cymbæform, biseptate, the middle articulate, brown, or with a brown nucleus, .0006-.00057 long.

* **Hypoxylon investiens.** *Schwein.*—Texas, C. Wright. No. 3913.